


NAME: Java, Rest API, React, Spring Boot

DATE: May 1, 2025 8:58 AM

DESCRIPTION OF TECHNOLOGY



IMPACT ON SOCIETY



The problem this technology aims to solve is the challenge of finding a parking spot when visiting a company or building with limited parking space park far away, I. This can be a the frustrating and time-consuming task for visitors, who may have to circle around the building or leading to delays and inconvenience


HATEFUL AND CRIMINAL ACTORS



Privacy Invasion: If not properly secured, location data could be used to track users' movements, which could be a significant privacy violation. This could potentially lead to stalking or harassment.


Data Breaches: If the app stores personal data, it could be targeted for data breaches. Hackers could steal sensitive information for identity theft or other fraudulent activities.

PRIVACY




The app may require access to location data to function effectively. It might also store personal information if users need to create an account, such as name, email address, and possibly vehicle details.

HUMAN VALUES




The technology doesn't directly affect users' identity, as its primary purpose is functional. However, becoming a user of such an app might subtly change a person's self-perception or public identity, perhaps making them feel more technologically savvy or connected.

STAKEHOLDERS




- Sioux

DATA




Data-driven technologies like this app have to deal with issues like data privacy, accuracy, and bias. For instance, if the app isn't accurate in displaying parking availability, it would lead to user frustration and decreased trust. Likewise, protecting user data is paramount to avoid privacy breaches.

INCLUSIVITY




Yes, the technology may have a built-in bias due to the use of the haar cascade classifier. Like any algorithm, the classifier's accuracy and performance can be influenced by biases in the training data used to develop it. If the training data is not diverse or representative enough, it can result in biased outcomes, particularly in the context of object detection or recognition. Addressing and mitigating this bias is crucial to ensure fair and equitable results from the technology.

TRANSPARENCY




Yes, it is important to provide clear explanations to users and stakeholders regarding how the technology works and the underlying business model. Transparency is key in establishing trust and ensuring that users understand the processes and mechanisms involved. This includes explaining how the parking technology determines available spaces, allocates parking, and manages user data.

SUSTAINABILITY



Direct and indirect energy use is taken into account by designing the technology with energy-efficient components, optimizing power consumption, considering the energy footprint of the supply chain, conducting life cycle assessments, and implementing sustainable design principles to minimize energy consumption throughout the technology's life cycle.




FUTURE



The technology could potentially alleviate congestion and reduce traffic in areas where parking is limited. Visitors would no longer need to circle around buildings or drive long distances to find parking, leading to smoother traffic flow and reduced carbon emissions.

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HUMAN VALUES

How is the identity of the (intended) users affected by the technology?


To help you answer this question think about sub questions like:

- If two friends use your product, how could it enhance or detract from their relationship?
- Does your product create new ways for people to interact?...

TRANSPARENCY


Is it explained to the users/stakeholders how the technology works and how the business model works?

- Is it easy for users to find out how the technology works?
- Can a user understand or find out why your technology behaves in a certain way?
- Are the goals explained?
- Is the idea of the technology explained?
- Is the technology company transparent about the way their...

IMPACT ON SOCIETY

What is exactly the problem? Is it really a problem? Are you sure?


Can you exactly define what the challenge is? What problem (what 'pain') does this technology want to solve? Can you make a clear definition of the problem? What 'pain' does this technology want to ease? Whose pain? Is it really a problem? For who? Will solving the problem make the world better? Are you sure? The problem definition will help you to determine...

STAKEHOLDERS

Who are the main users/targetgroups/stakeholders for this technology? Think about the intended context by...


When thinking about the stakeholders, the most obvious one are of course the intended users, so start there. Next, list the stakeholders that are directly affected. Listing the users and directly affected stakeholders also gives an impression of the intended context of the technology.

...

SUSTAINABILITY


In what way is the direct and indirect energy use of this technology taken into account?

One of the most prominent impacts on sustainability is energy efficiency. Consider what service you want this technology to provide and how this could be achieved with a minimal use of energy. Are improvements possible?

HATEFUL AND CRIMINAL ACTORS

In which way can the technology be used to break the law or avoid the consequences of breaking the law?


Can you imagine ways that the technology can or will be used to break the law? Think about invading someone's privacy. Spying. Hurting people. Harassment. Steal things. Fraud/identity theft and so on. Or will people use the technology to avoid facing the consequences of breaking the law (using trackers to evade speed radars or using bitcoins to launder...

DATA

Are you familiar with the fundamental shortcomings and pitfalls of data and do you take this sufficiently into...


There are fundamental issues with data. For example:

- Data is always subjective;
- Data collections are never complete;
- Correlation and causation are tricky concepts;
- Data collections are often biased;...

FUTURE


What could possibly happen with this technology in the future?

Discuss this quickly and note your first thoughts here. Think about what happens when 100 million people use your product. How could communities, habits and norms change?

PRIVACY

Does the technology register personal data? If yes, what personal data?

If this technology registers personal data you have to be aware of privacy legislation and the concept of privacy. Think hard about this question. Remember: personal data can be interpreted in a broad way. Maybe this technology does not collect personal data, but can be used to assemble personal data. If the technology collects special personal data (like...

INCLUSIVITY

Does this technology have a built-in bias?

Do a brainstorm. Can you find a built-in bias in this technology? Maybe because of the way the data was collected, either by personal bias, historical bias, political bias or a lack of diversity in the people responsible for the design of the technology? How do you know this is not the case? Be critical. Be aware of your own biases....

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